

# Grand Digital Wireless Security Kit

(Color QUAD Processor / 802.11g Video & Audio Transmission / SATA HDD Storage)

## User's Manual

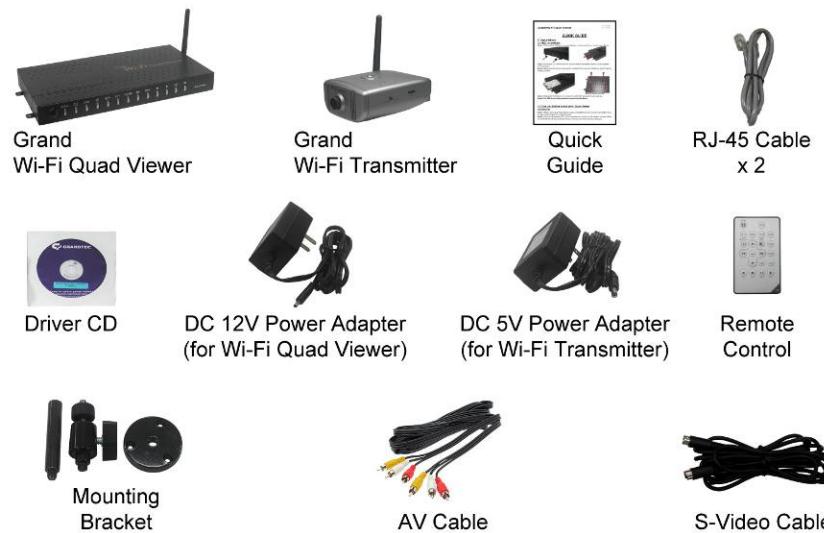
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08/11/08

## 1. Package Contents



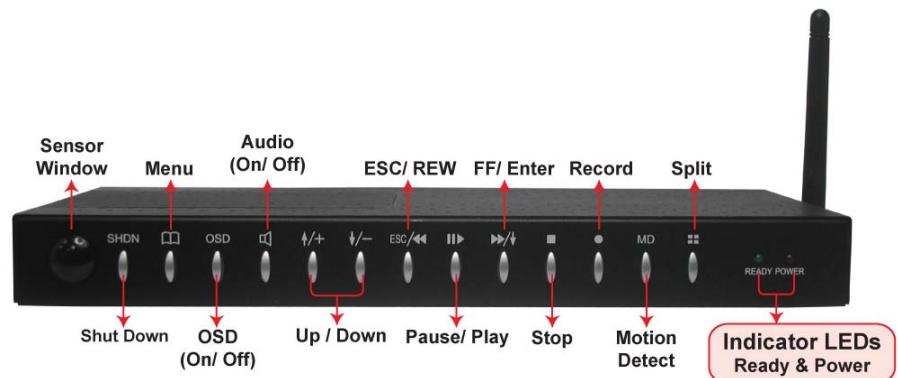
## 2. Index to Parts and Controls

### 2.1 Grand Wi-Fi Transmitter



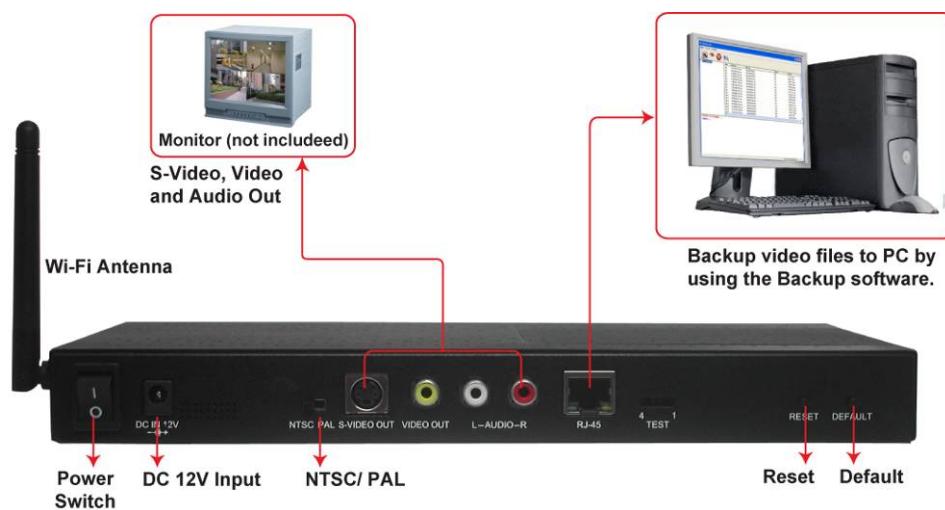
## 2.2 Grand Wi-Fi Quad Viewer

### ■ Front Panel



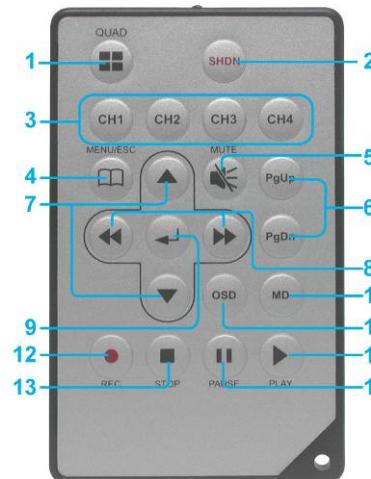
Name	Description
Sensor Window	Receives an infra-red signal from the remote controller
SHDN (Shut Down)	Shut down the HDD immediately (you have to shutdown the HDD before turning off the Grand Wi-Fi Quad Viewer)
Menu	Opens the setup menu
OSD (On/ Off)	Turn the channel number display on/ off
Audio (On/ Off)	Turn on/ off the live audio output in one-screen segmentation mode
Up/ Down	Move the cursor up/ down, or to change the setting values
ESC/ REW	<b>ESC:</b> Exit the current menu or returns to the higher-level menu <b>REW:</b> Select Left/ Play backward (press the button repeatedly for faster backward play)
Pause/ Play	<b>Pause:</b> Temporarily stops playback <b>Play:</b> Starts playing the video stored in hard disk
FF/ Enter	<b>FF:</b> Select Right/ Play Forward (press the button repeatedly for faster forward play) <b>Enter:</b> Confirm selection
Stop	Stops playback, and press the <b>Stop</b> button again to exit
Record	Starts or stops recording
Motion Detect	Motion Detection on/ off
Split	Shows Quad view for cameras
Ready LED	ON if system is ready
Power LED	ON if system is power on

## ■ Rear Panel



Name	Description
Power Switch	Power On/ Off
DC 12V Input	Insert the provided power adapter (DC 12V)
NTSC/ PAL	Video signal (NTSC/ PAL) switch
S-Video Output	Output port for S-Video display
Video Output	Output port for Video display
Audio Output	Output port for audio Live/Playback
RJ-45 Input	<ol style="list-style-type: none"> <li>1. Connect to PC for backup function</li> <li>2. Connect to Grand Wi-Fi Transmitter by using the RJ-45 cable (wired mode).</li> </ol>
RESET Button	Restart the Grand Wi-Fi Quad Viewer (before restarting the Grand Wi-Fi Quad Viewer, it will shut down the HDD automatically)
DEFAULT Button	Reset all settings to the original (factory) setting (the Grand Wi-Fi Quad Viewer will restart automatically)

## 2.3 Remote Controller



1	Show Quad view for cameras
2	Shut down the HDD immediately
3	Press one of the buttons (CH1~CH4) to see full screen display from channel 1~4
4	<b>Menu:</b> To open the setup menu
5	<b>ESC:</b> To quit the setup menu, and directly return to display screen
6	Mute the sound
7	Go to the previous/ next page
8	Moves the cursor up/ down, or to change the setting values
9	◀: Select Left/ Backward/ ESC (returns to the higher-level menu)
10	▶: Select Right/ Forward/ Enter
11	Confirm selection/ Enter
12	Motion Detection on/ off
13	Turn the channel number display on/ off
14	Starts or stops recording
15	Stops playback and returns to the beginning of the file
16	Starts playing the video stored in hard disk
17	Temporarily stops playback

### 3. Installation

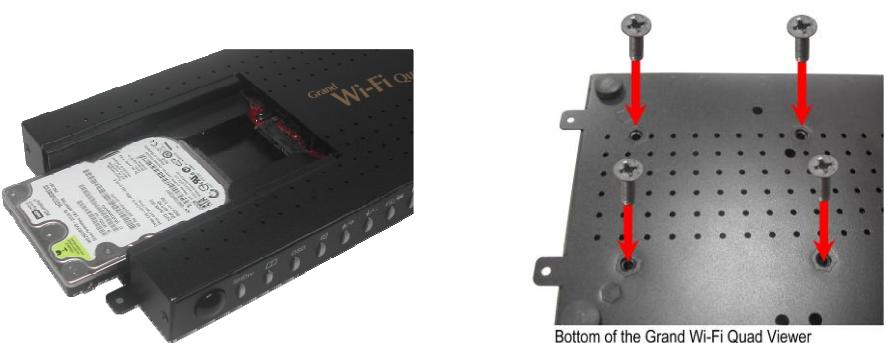
#### 3.1 HDD Installation

**Step 1:** Remove the HDD cover screws (2pcs), and separate the cover as shown below.



**Step 2:** Insert your 2.5" SATA HDD into the connector, and fasten the HDD with provided screws (4pcs).

**Notice:** Makes sure that all pins are completely inserted into the connector socket and the HDD label is pointing outward.



**Step 3:** Replace the HDD cover and fasten it with the HDD cover screws (2pcs).

**Notice:** The HDD must be formatted when used for the first time (please refer to 3.4).

#### 3.2 Turn On/ Off the Grand Wi-Fi Quad Viewer

##### 3.2.1 Turn On

**Step 1:** Before turning on the machine, please select the correct video format (NTSC/ PAL) on back of the Grand Wi-Fi Quad Viewer.

**Step 2:** Connect the power (DC 12V) to the machine, and turn on the switch on back of the Grand Wi-Fi Quad Viewer (the machine will start up and initialization will begin).

##### 3.2.2 Turn Off

**Step 1:** Press the **SHDN** button on the remote controller/ front panel to shut down the HDD before turning off the machine. (This procedure will park the storage HDD and protect your filesystem from unexpected damage.)

**Step 2:** You might turn off the power after the **READY** LED is stop flashing.

#### 3.3 Grand Wi-Fi Transmitter Installation

##### 3.3.1 Connect the Grand Wi-Fi Transmitter

###### ■ Wireless Mode



**Notice:**

1. The Grand Wi-Fi Transmitter must switch to **WLAN** mode on the side.
2. Before fixing the Grand Wi-Fi Transmitter on the wall or ceiling, please configure the Grand Wi-Fi Transmitter by the Grand Wi-Fi Quad Viewer and make sure all Grand Wi-Fi Transmitters are able to connect successfully.

###### ■ Wired Mode

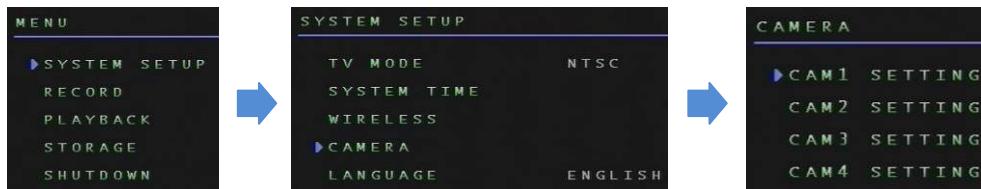


**Notice:**

1. The Grand Wi-Fi Transmitter must switch to **LAN** mode on the side.
2. Before fixing the Grand Wi-Fi Transmitter on the wall or ceiling, please configure the Grand Wi-Fi Transmitter by the Grand Wi-Fi Quad Viewer and make sure all Grand Wi-Fi Transmitters are able to connect successfully.

### 3.3.2 Configure the Grand Wi-Fi Transmitter

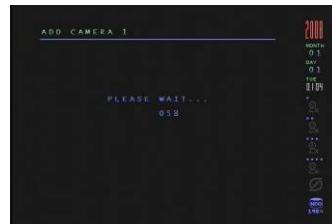
**Step 1:** Connecting the Grand Wi-Fi Transmitters and Grand Wi-Fi Quad Viewer with power.  
**Step 2:** Turn on the Grand Wi-Fi Quad Viewer, and then press the **MENU** button on the remote controller/ front panel, and select **SYSTEM SETUP** → **CAMERA** → **CAM1 SETTING**.



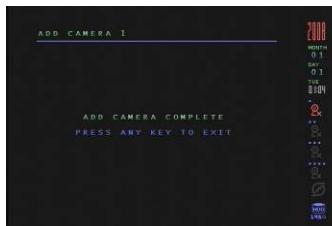
**Step 3:** Select **ADD CAMERA** and press the **ENTER** button, the **warning message** will appear as shown below, select **YES** and press **ENTER** to start configuring.



**Step 4:** The screen will count down from 60 to 1 sec.



**Step 5:** Press the **CONFIG** button on the Grand Wi-Fi Transmitter until the screen shows as following, and then release the button (it takes around 5 ~ 10 sec normally) and press the **◀** button to exit.



**Step 6:** Add other cameras within the same processes.

**Step 7:** After all Grand Wi-Fi Transmitters are added successfully, the Quad view will display the instant video of Wi-Fi Transmitters.

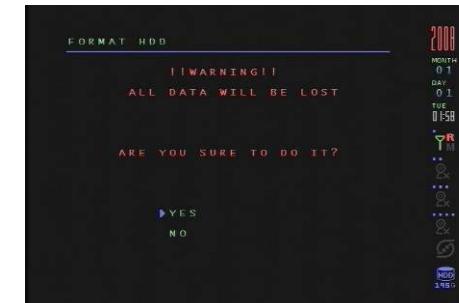
### 3.4 Format HDD

The HDD must be formatted when used for the first time.

**Step 1:** Press **MENU** button on the remote controller/ front panel, and select **STORAGE** → **FORMAT HDD**.



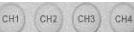
**Step 2:** The **warning message** will appear as shown below, select **YES** and press **ENTER** to start formatting.



## 4. Using the Grand Wi-Fi Quad Viewer

### 4.1 Screen Display

#### ■ Quad/ Single View

Press the  (QUAD) button on the panel button to switch to Quad or Single view. You can also directly press one of the  (CH1~CH4) buttons on the remote controller to see full screen display from channel 1~4.



Quad View



Single View

#### ■ Status Bar

No.	Description	
1	Year	
2	Month	
3	Date	
4	Day	
5	Time	
6	Connected by Wireless	Camera 1 Status
7	Motion Detection On	
8	Connected by RJ-45 Cable	Camera 2 Status
9	Recording On	
10	Camera 3 Disconnected	Camera 3 Status
11	Camera 4 not Added	Camera 4 Status
12	PC Connecting (for backup function)	
13	Free HDD Space	

### 4.2 Setup Menu

Press the **MENU** button to display the setup menu screen as shown below.



#### 4.2.1 SYSTEM SETUP

Press the **ENTER** button when the cursor moves to **SYSTEM SETUP**, and the **SYSTEM SETUP** window will appear as shown below.



- **TV MODE:** Displays the video format (NTSC/ PAL).
- **SYSTEM TIME:** To set the system time.  
**Step 1:** Press the **ENTER** button when the cursor moves to **SYSTEM TIME**, and the warning message will appear as shown below.



**Step 2:** Select **YES** and press the **ENTER** button.

**Step 3:** Use the  and  buttons to adjust value, and use the  and  buttons to change setting items.



**Step 4:** After finishing the system time setting, please use the  button to move the cursor to the **MONTH** item, and then press the  button again to save and exit.

#### ■ WIRELESS: To set the wireless channel.

The Grand Wi-Fi Quad Viewer can broadcast on several different channels, similar to the way radio stations use different channels. In the United States and Canada, these channels are 1, 6 and 11. Just like you'll sometimes hear interference on one radio station while another is perfectly clear, sometimes one wireless channel is clear than others. Try changing your Grand Wi-Fi Quad Viewer channel to see if your signal strength improves.

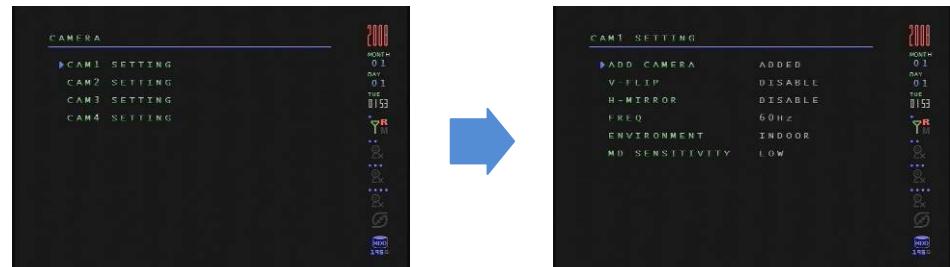
**Step 1:** Press the **ENTER** button when the cursor moves to **WIRELESS**.



**Step 2:** Use the  and  buttons to select the wireless channel.

**Step 3:** Press the  button to save and exit.

■ **CAMERA:** Use the  and  buttons to select camera 1~4 first.



- **ADD CAMERA:** To configure the Grand Wi-Fi Transmitter (refer to **3.3.2** for more information).
- **V-FLIP:** Flip the video vertically.
- **H-MIRROR:** Mirror the video horizontally.
- **FREQ:** Adjust to 50 or 60Hz, depend on your lighting.
- **ENVIRONMENT:** Optimum parameter for indoor or outdoor condition.
- **MD SENSITIVITY:** HIGH or LOW modes for triggering motion detection.

■ **LANGUAGE:** To set system language.

## 4.2.2 RECORD

The Grand Wi-Fi Quad Viewer supports three recording modes: **MANUAL**, **MOTION DETECTION** and **SCHEDULE**.

#### Notice:

1. Schedule Record is a top priority for recording. The Manual Record or Motion Detection Record cannot stop or effect to the planned Schedule Record.
2. The Manual Record or Motion Detection Record applied depends on which is the last event by keypad.

### 4.2.2.1 MANUAL RECORD

- Directly press the  (REC) button on the remote controller/ panel button under Quad view, all the 4 cameras will start recording. Or press the  (REC) button under single view, and the specific camera will start recording.
- Press the  (REC) button again to stop recording.

#### Notice:

1. While record is triggered, the **Recording** icon will indicate on the status bar.
2. A short cut to record specific camera under Quad view.
  - Press  and then press  (REC), only CH1 will start recording.
  - Press  and then press  (REC), only CH2 will start recording.
  - Press  and then press  (REC), only CH3 will start recording.
  - Press  and then press  (REC), only CH4 will start recording.

#### 4.2.2.2 MOTION DETECTION RECORD

- Directly press the **MD** (MD) button on the remote controller/ panel button under Quad view, all the 4 cameras will start motion detection record. Or press the **MD** (MD) button under single view, and the specific camera will start motion detection record.
- Press the **MD** (MD) button again to stop motion detection record.

##### Notice:

1. A short cut to start MD record of specific camera under Quad view.
  - Press **▲** and then press **MD** (MD), only CH1 will start motion detection record.
  - Press **▶** and then press **MD** (MD), only CH2 will start motion detection record.
  - Press **◀** and then press **MD** (MD), only CH3 will start motion detection record.
  - Press **▼** and then press **MD** (MD), only CH4 will start motion detection record.

#### 4.2.2.3 SCHEDULE RECORD

Press the **MENU** button, and select **RECORD**, the screen will appear as shown below.



- **SCHEDULE:** To enable or disable the **Schedule Record** function.

**Step 1:** Press the **ENTER** button, and then press the **▲** and **▼** buttons to select **ENABLE** or **DISABLE**.

**Step 2:** Press the **◀** button to make setting.

- **CH SETTING:** To set the record mode.

**Step 1:** Select **ALL CHANNEL** or individual channel “**CHANNEL 1 ~ CHANNEL 4**”, and then press the **ENTER** button.

##### Remark:

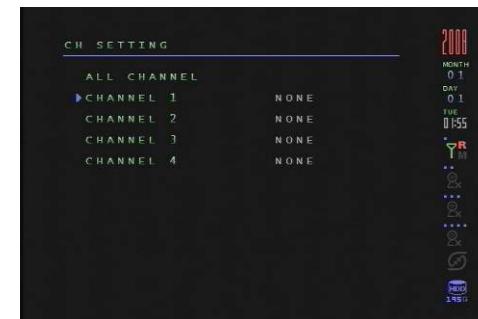
1. **ALL CHANNEL** means all the 4 cameras will use the same settings
2. Other individual channel settings (CH1 ~ CH4) could be set separately.

**Step 2:** Press the **▲** and **▼** buttons to set **NONE**, **RECORD** or **RECORD+MD**.

##### Remark:

1. **RECORD** means pure record.
2. **RECORD+MD** means record while motion detection was triggered.

**Step 3:** Press the **◀** button to make setting and exit.



- **START TIME:** To set the time when the Grand Wi-Fi Quad Viewer will start recording.
- **DUARTION:** To set the recording duration.
- **WEEKLY SETTING:** To set the week schedule (set the specific days for recording).

#### 4.2.3 PLAYBACK

**Step 1:** Press the **ENTER** button when the cursor moves to **PLAYBACK**. You can also press the **▶** (PLAY) button on remote control or the **▶▶** button on panel button to directly enter the **PLAYBACK** mode under Quad view.

**Step 2:** Select the CH1 ~ CH4, and the file list will appear.



**Step 3:** Select the file that you are going to play, and press the **ENTER** button to start playing.

**Remark:** While playing you can have followings additional operations

Operation	To
Press  (remote controller)	Forward
Press  (panel button)	
Press  (remote controller)	Rewind
Press  (panel button)	
Press  (remote controller)	Go to next event
Press  (panel button)	
Press  (remote controller)	Go back to previous event
Press  (panel button)	
Press  (remote controller)	Pause/ Play
Press  (panel button)	
Press  (remote controller)	Stop
Press  (panel button)	
Press   (remote controller)	Go to previous file
Press   (panel button)	
Press   (remote controller)	Go to next file
Press   (panel button)	
Press  (remote controller)	OSD On/ Off
Press  (panel button)	
Press  (remote controller)	Audio On/ Off
Press  (panel button)	
Press   (remote controller)	Exit
Press   (panel button)	

#### 4.2.3.1 FILE SEARCH

**Step 1:** Select **FILE SEARCH**, and press the **ENTER** button.

**Step 2:** Directly select **Channel**, **Date** and **Time** which you would like to playback.

**Step 3:** Press the **ENTER** button to play the file.



#### 4.2.4 STORAGE



- **HDD SIZE:** Display the remaining space and the total capacity of the HDD.
- **OVERWRITE:** To Enable/ Disable the overwrite function. For the limited disk space, an overwrite function is necessary to keep recording video files. The overwrite function will cover the oldest file and replace with newest one.
- **FORMAT HDD:** To format HDD (refer to 3.4 for more information).
- **DELETE FILES:** To delete the specific video files.

**Step 1:** Select the CH1 ~ CH4 and press **ENTER** button, the file list will appear.

**Step 2:** Press the  button to select the file to be deleted (the selected file is marked with ). You can use the  and  buttons to select multiple files).



**Step 3:** Press the  button and select **YES** to delete the files.

## 4.2.5 SHUTDOWN

You have to shut down the HDD before doing power off or reset the Grand Wi-Fi Quad Viewer (This procedure will park the storage HDD and protect your filesystem from unexpected damage).

**Step 1:** Select **REBOOT** or **TURN OFF**, and press the **ENTER** button to execute, you can also press the **SHDN** button on the remote controller/ front panel to directly shut down the HDD.



**Step 2:** If you select the **TURN OFF** item, you might turn off the power after the **READY** LED (in front of the Grand Wi-Fi Quad Viewer) is stop flashing. If you select the **REBOOT** item, the Grand Wi-Fi Quad Viewer will restart automatically.

## 5. Using the Viewer FTU Software

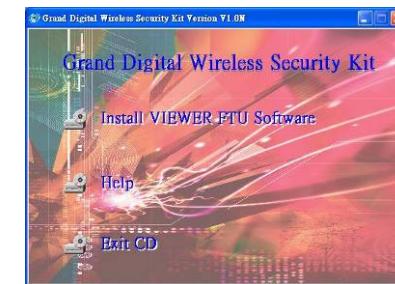
### 5.1 Introduction

The **Viewer FTU (File Transfer Utility)** is a tool to download video file from Grand Wi-Fi Quad Viewer, and transfer files into AVI format that can be played on your computer.

### 5.2 Installation

#### 5.2.1 Viewer FTU Installation

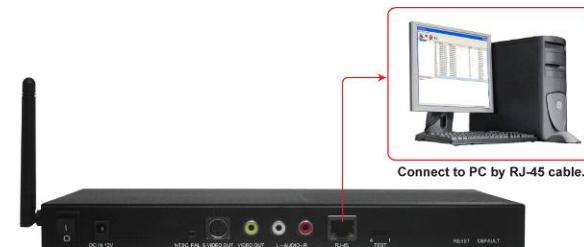
- Insert the included CD to your CD-ROM driver, and the installation program will auto-run. The first screen of the installation program will appear as shown below. Click the “**Install VIEWER FTU Software**” to start the installation.



- Please follow the instructions of the wizard to complete the installation process (includes Viewer FTU program and DivX Player).
- After finishing the installation, the **Viewer FTU** icon  and the **DivX Player** icon  will appear on your desktop.

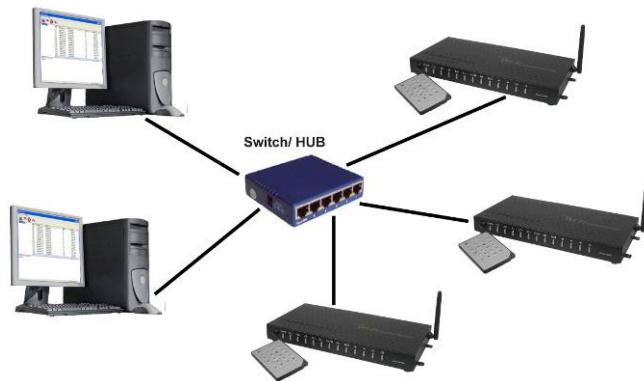
#### 5.2.2 Hardware Installation

**Scenario 1:** Directly connect the Grand Wi-Fi Quad Viewer to your PC by RJ-45 cable. (The Grand Wi-Fi Quad Viewer communicates with PC by TCP/IP protocol, that means Grand Wi-Fi Quad Viewer & PC must be under the same submask. Since there is no DHCP server exist, the IP address have to specific into static IP.)



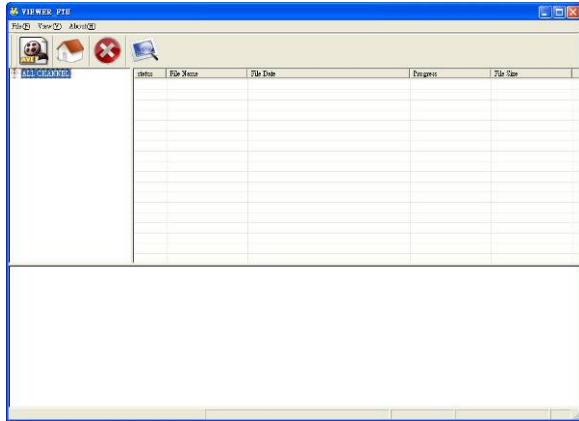
## Scenario 2: Connect the Grand Wi-Fi Quad Viewer to your PC via LAN.

(The Grand Wi-Fi Quad Viewer can also connect to a local LAN, in this case, the PC can manage all the Grand Wi-Fi Quad Viewers on the same network. If the DHCP server exists and distribute IP address to local network device, you didn't have to assign IP address to Grand Wi-Fi Quad Viewer. However, if DHCP server didn't exist, a static IP address is necessary to assign to the Grand Wi-Fi Quad Viewer.)



## 5.3 Using the Viewer FTU Software

Step 1: Double-click the shortcut icon  to open the Viewer FTU Software.



**Step 2:** Click the **Network File Transfer** icon , and then double-click the Grand Wi-Fi Quad Viewer that you are willing to connect.

### Scenario 1: Static IP

1. Select the radio button of **STATIC IP**.
2. Key-in the IP address that is same subnet with your PC.
3. Click **Configure** button.
4. After IP address is set, click the **Connect** button.

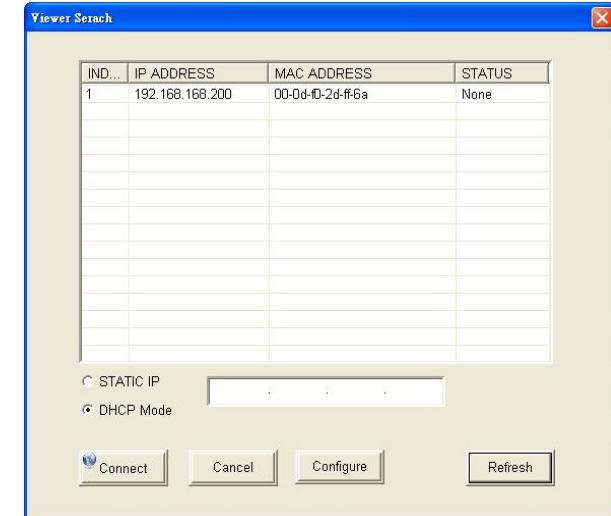
**Notice:** If the Grand Wi-Fi Quad Viewer is connected with PC directly, the IP address of PC needs to be specified.

**Example:** PC IP address: 192.168.1.100. Set the Grand Wi-Fi Quad Viewer IP address as: 192.168.1.101

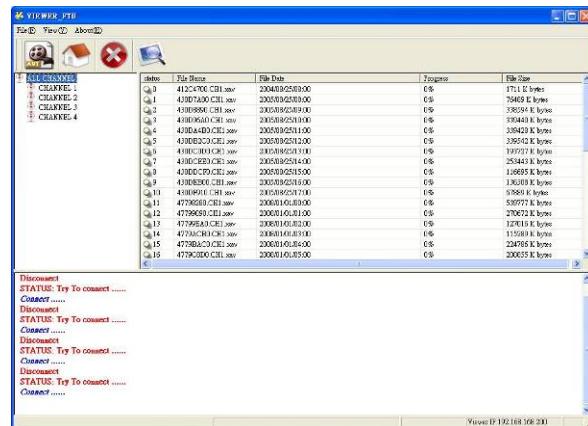
### Scenario 2: DHCP

1. Select the radio button of **DHCP Mode**.
2. Click **Configure** button.
3. After the Grand Wi-Fi Quad Viewer is assign IP address, double-click the Grand Wi-Fi Quad Viewer on the list and then click the **Connect** button.

**Notice:** A DHCP server is necessary on the local LAN for this scenario.



**Step 3:** Click **All CHANNEL**, all the video files will list and sort by date. Click **CHANNEL 1~4**, the files will list by channels.

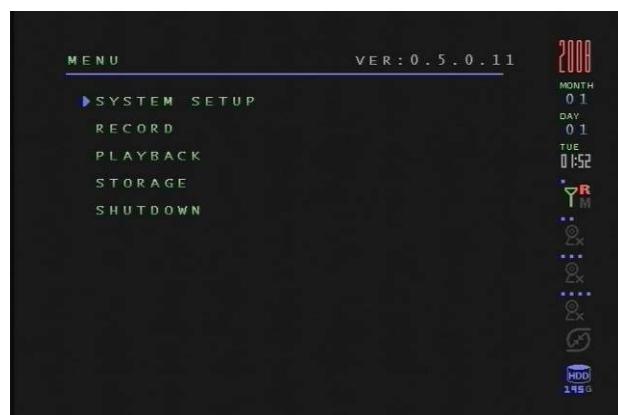


**Step 4:** Double-click the selected file and save to a specified folder on your local PC. You can use the **Shift** or **Ctrl** key to select numerous files, and right-click and select **Download** to save files on your local PC.

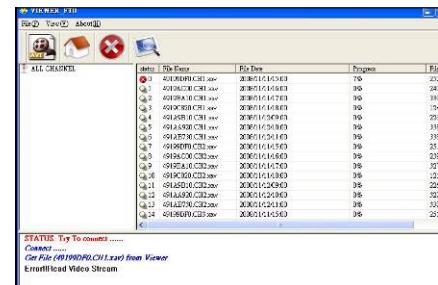
#### Notice:

1. When downloading recorded files, it will occupy system resources. In the case of might be happened incomplete downloaded or break down, first please into to Grand Wi-Fi Quad Viewer setup menu before downloading file. (when into setup menu which Grand Wi-Fi Quad Viewer will continuing recording).

Press the **MENU** button to into the setup menu.



2. If download motion is failing as shown below, click the **X** in the upper-right corner to directly close the program.



Execute the **Viewer FTU** program and connect to Grand Wi-Fi Quad Viewer again, and the message “**Continue to download <xxxxxx.xav>**” will pop-up. Please click the **X** to directly close the popup message, and re-select the recorded files in the list to download.



3. The Grand Wi-Fi Quad Viewer will disconnect automatically, if there is no file downloaded after 1 minute.
4. The **File Search** icon can easy find the specified date and time record.

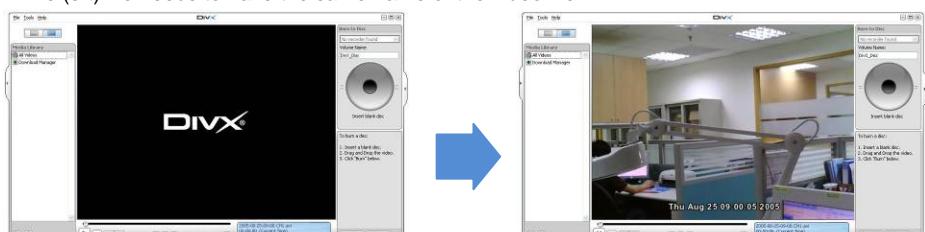
## 5.4 Play the Downloaded Files

Each video file that you download includes an .avi file and a subtitle file of time tab (.srt).

Double-click the shortcut icon  to open the DivX Player program, and then drag the video file into the display screen, and it will play the file automatically.

#### Notice:

1. The (srt) subtitle file needs to be in the same folder of the video file.
2. The (srt) file needs to have the same name of the video file.



## 6. Troubleshooting

Situation	Check Point
The Grand Wi-Fi Transmitter can't connect with Grand Wi-Fi Quad Viewer successfully.	The wireless connectivity might be out of range. Please move the Grand Wi-Fi Transmitter nearby the Grand Wi-Fi Quad Viewer.
If the Grand Wi-Fi Transmitter is nearby the Grand Wi-Fi Quad Viewer, but it still can't connect successfully.	Please do the "ADD CAMERA" procedure to configure again (please refer to 3.3.2).
Tips for improving Wireless connectivity	<ol style="list-style-type: none"> <li>1. Change your wireless channel (refer to page 11).</li> <li>2. Move the Grand Wi-Fi Quad Viewer off the floor and away from walls and metal objects (such as metal file cabinets).</li> <li>3. Adjust the wireless antennas for better signal reception.</li> <li>4. Reduce wireless interference (such as 2.4GHz Cordless phone, Microwave, Blue Tooth devices).</li> <li>5. If the Grand Wi-Fi Transmitter location is far away from the Grand Wi-Fi Quad Viewer or under a noise condition, the LAN (Ethernet) can be considered as a solution (refer to 3.3.1).</li> </ol>
Displays <b>SCANNING DISK</b> on screen 	<p>It means the system found an error of HDD. It attempts fix it. It will take around 15~20 minutes or longer depend on the hard disk size and the errors.</p> <ul style="list-style-type: none"> <li>■ Whenever you shutdown your system in some improper way or the system time is disorder (please check the battery of RTC), it will appear.</li> <li>■ Do not turn off the power while it is scanning.</li> </ul>